

Narasimha Royal Pola

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Data Analyst with 2 years of experience turning large, messy data into clear business decisions. Specialized in building Power BI dashboards on ERP data, automating manual reports, and finding where a process loses time. Skilled in SQL, Python, Power BI (DAX), PostgreSQL, SQL Server, BigQuery, and Airflow, with hands-on work across **44M+ records** and a 2-to-3-hour manual report turned into an automatic morning refresh. Comfortable working with energy, supply chain, purchasing, and manufacturing data, and explaining results to non-technical managers.

TECHNICAL SKILLS

Languages: SQL, Python, DAX, TypeScript

Data Engineering: Airflow, dbt, Kafka, Docker, Great Expectations, ETL, Medallion Architecture, Star Schema, CI/CD

Databases and BI: PostgreSQL, SQL Server, BigQuery, Qdrant, Power BI, Tableau, Excel, pandas

Retrieval and LLM: Hybrid search (BM25 + vector), embeddings, chunking, evaluation sets, text-to-SQL, Gemini API, Grok API

PROFESSIONAL EXPERIENCE

Data Engineer (Volunteer)

Jul 2026 – Present

Executive Service Corps of Houston

Houston, TX

- Built the data pipeline behind an internal knowledge base: ingests the organization's own content, cleans and chunks it, and loads it into a search index queryable by topic.
- Moved the heavy work out of the request path and into the index, taking answers from **tens of seconds to about one**, and benchmarked 7 embedding models against hybrid keyword and vector search to lift retrieval accuracy by 15 points.

Instructional Assistant

Aug 2025 – May 2026

University of Houston, C. T. Bauer College of Business

Houston, TX

- Managed **10+ student teams** across 6 nonprofit clients, from scoping each project to the client hand-off.
- Built a Google Sheets tracker that flagged students falling behind, and used Apps Script with the Gemini API to email deadline reminders automatically.

Data Analyst

Jan 2024 – May 2024

Next24tech Technology & Services LLP

Bengaluru, India

- Built SQL Server views on SAP S/4HANA data for 50 machines across 3 production lines, tracking downtime, order capacity, and material shortages.
- Replaced a 2 to 3 hour manual Excel process with a Power BI dashboard refreshed after the nightly SAP load, moving the leadership report from **2PM to 8AM**.

PROJECTS

GasBook, Natural Gas Risk Analytics / *Python, PostgreSQL, scikit-learn*

Backtested a 99% one-day VaR across 5 winter storms: before the January 2024 arctic blast it predicted a 15% worst-day loss against a real **319%**.

Sector Compare, Live Market Analytics / *Python, FastAPI, TypeScript*

Measures US and Indian stocks against their sector benchmark across 8 time windows, with a snapshot of **293 categories** and **4,180 companies** behind a fallback chain.

Supply Chain Risk Analytics with AI Agent / *Kafka, Airflow, dbt, BigQuery*

76,311 US import records through Kafka, dbt and BigQuery on 6 Airflow DAGs, reconciled to Census totals at **0.00% variance**, with a guardrailed text-to-SQL chatbot.

CERTIFICATIONS

AI Leader Certification · Nebius

Forward Program · McKinsey & Company

EDUCATION

University of Houston

Master of Science in Computer Science

Houston, TX

Aug 2024 – May 2026